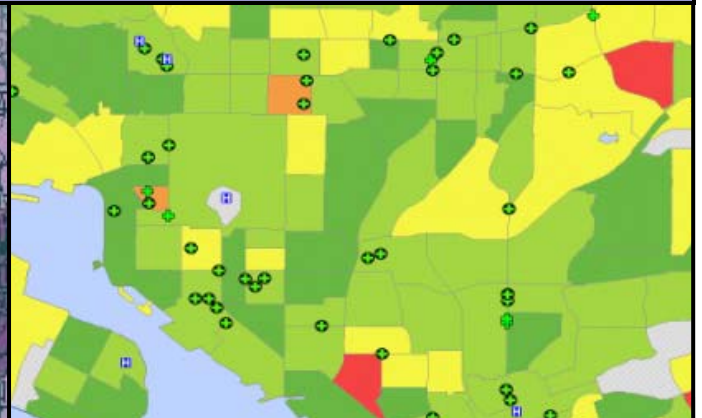
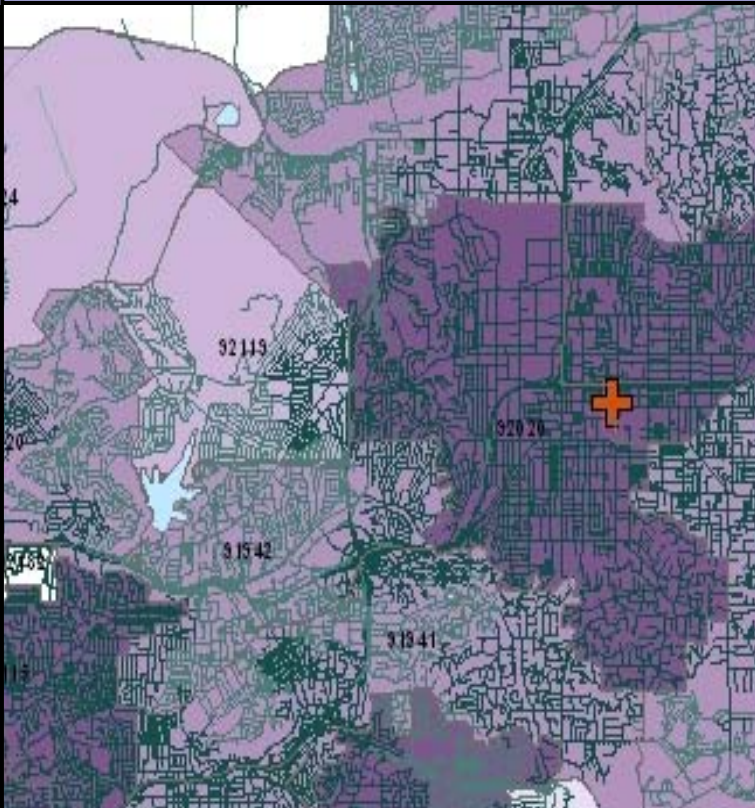


Healthcare Shortage Areas Atlas San Diego County



DECEMBER 2010

Healthcare Shortage Areas Atlas, San Diego County

Health Professional Shortage Areas, and Medically Underserved Areas/Populations*

The U.S. Department of Health and Human Services, Health Resources and Services Administration, Shortage Designation Branch develops criteria to decide whether or not a geographic area, population group or facility is a Health Professional Shortage Area (HPSA) or a Medically Underserved Area (MUA) or Medically Underserved Population (MUP).

Health Professional Shortage Areas (HPSA) may be designated as having a shortage of providers of: primary medical care, dental care, or mental health care. They may be urban or rural areas, population groups, or medical or other public facilities.

As of September 30, 2009, there are:

- **6,204 Primary Care HPSAs** with 65 million people living in them. It would take 16,643 practitioners to meet their need for primary care providers (a population to practitioner ratio of 2,000:1).
- **4,230 Dental HPSAs** with 49 million people living in them. It would take 9,642 practitioners to meet their need for dental providers (a population to practitioner ratio of 3,000:1).
- **3,291 Mental Health HPSAs** with 80 million people living in them. It would take 5,338 practitioners to meet their need for mental health providers (a population to practitioner ratio of 10,000:1).

Medically Underserved Areas (MUA) may be a whole county or a group of contiguous counties, a group of county or civil divisions or a group of urban census tracts in which residents have a shortage of personal health services.

Medically Underserved Populations (MUP) may include groups of persons who face economic, cultural or linguistic barriers to health care.

As of August, 2010, San Diego County has no designated MUP.

*Information from U.S. Department of Health and Human Services, Health Resources and Services Administration Branch, <http://bhpr.hrsa.gov/shortage/>, accessed December, 2010.)

Registered Nurse Shortage Areas**

The California Healthcare Workforce Policy Commission defines Registered Nurse Shortage Areas (RNSA) as those areas (1) lacking any hospital AND long-term care facility, where the majority of nurses are employed, and (2) having above the mean ratio of nurses to population.

There is a shortage of nurses statewide. The number of nurses per 100,000 in the state is significantly below the national number of nurses per 100,000 population. Those regions with above average census to nurse populations are hit the hardest by this statewide shortage.

This designation uses three factors in defining nursing shortage.

1. County boundaries (as the geographic unit for analysis),
2. The Board of Registered Nursing (BRN) licensee data and
3. The patient day or census data from all long term care facilities and general acute care hospitals.

This RNSA designates 31,311,830 people (84% of the 37,444,385) based on 2006 provisional Department of Finance population estimates. Twenty-seven counties, including San Diego County, are listed as RNSA.

** Information on RNSA from Office of Statewide Health Planning and Development (OSHPD) <http://www.oshpd.ca.gov/>

Sources:

Designations determined by U.S. Department of Health and Human Services, Health Resources and Services Administration, Shortage Designation Branch (HPSA, MUA, and MUP) or California Healthcare Workforce Policy Commission (RNSA).

Additional information on MSSA, HPSA, RNSA and other healthcare workforce topics pertinent to San Diego County can be found at Office of Statewide Health Planning and Development (OSHDP)

<http://www.oshpd.ca.gov/>.

Geography Note: This atlas uses HHSA Region geography. These boundaries may differ slightly from the SRA-based Regions used in other data resources.

Maps prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Emergency Medical Services.

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Map 1: Medically Underserved Areas (MUA) in San Diego County, 2010.

Medically Underserved Areas (MUA)*

The federal MUA designation identifies medically underserved areas on the basis of demographic data.

To qualify for designation the area or population is scored on the basis of four criteria:

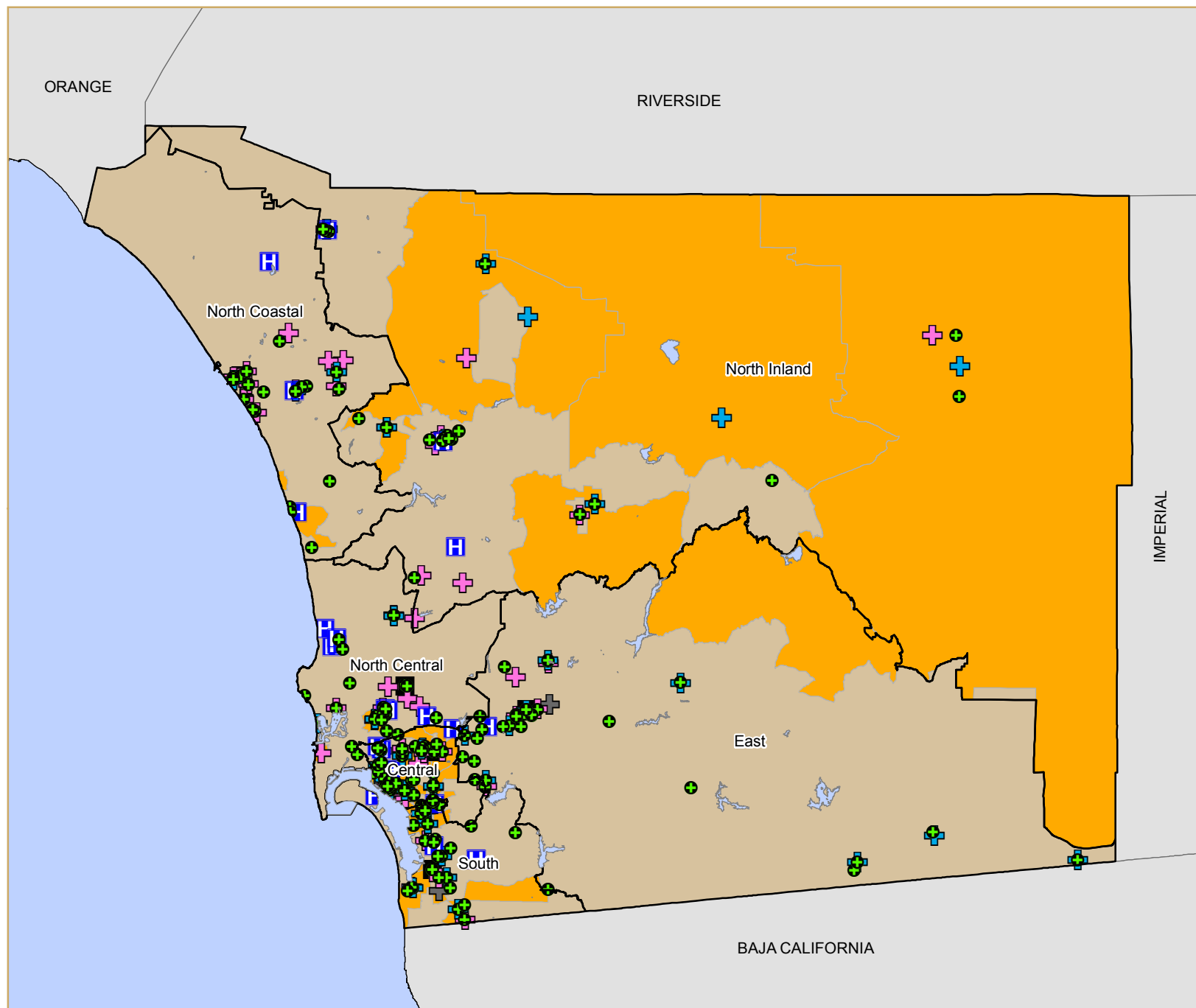
1. percentage of population below 100% poverty
2. percentage of population age 65 and over
3. infant mortality rate
4. primary care physicians per 1,000 population

The four resulting scores are added and the sum is identified as the Index of Medical Underservice (IMU). An area with a score less than 62 is generally eligible for designation as an MUA.

Benefits of designation as an MUA:

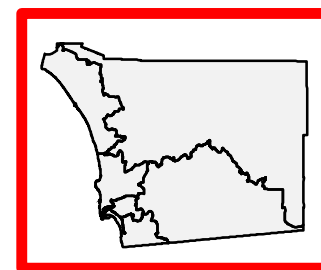
- Eligibility to develop community health centers, migrant health centers, federally qualified health centers (FQHCs) and FQHC look-alikes, and rural health clinics (RHCs). The cost-based reimbursement of these programs is designed to enhance access to primary health care in medically underserved areas.
- Enhance federal grant eligibility.
- Authorizes the Secretary of U.S. Department of Health and Human Services to designate shortage areas delegated to Health Resources and Services Administration/Bureau of Health Professions/National Center for Health Workforce Analysis/Shortage Designation Branch.

* Information from Office of Statewide Health Planning and Development (OSHPD) <http://www.oshpd.ca.gov/>



Medically Underserved Areas in San Diego County, 2010

- MUA
- H Hospital
- + Immunization Provider
- Clinic**
- + Community Clinic
- + Migrant Hlth Ctr
- + County Med. Services
- + Women, Infant, Child
- + Social Rehab Ctr
- Public Health Center
- Region



Source: Health professional shortage data from the Office of Statewide Health and Planning and Development (OSHDP), last updated 8/24/2010 and accessed 11/30/2010. Maps prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Emergency Medical Services 12/1/2010.
Contact: Isabel Corcos, or Leslie Ray, EMS, 619.285.6429.



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Map 2: Primary Care Health Professional Shortage Areas (Primary Care HPSA) in San Diego County, 2010.

Primary Care Health Professional Shortage Areas (Primary Care HPSA)*

The federal HPSA designation (formerly Health Manpower Shortage Areas) identifies areas as having a shortage of health care providers on the basis of availability of primary care physicians. To qualify for designation as a HPSA, an area must be:

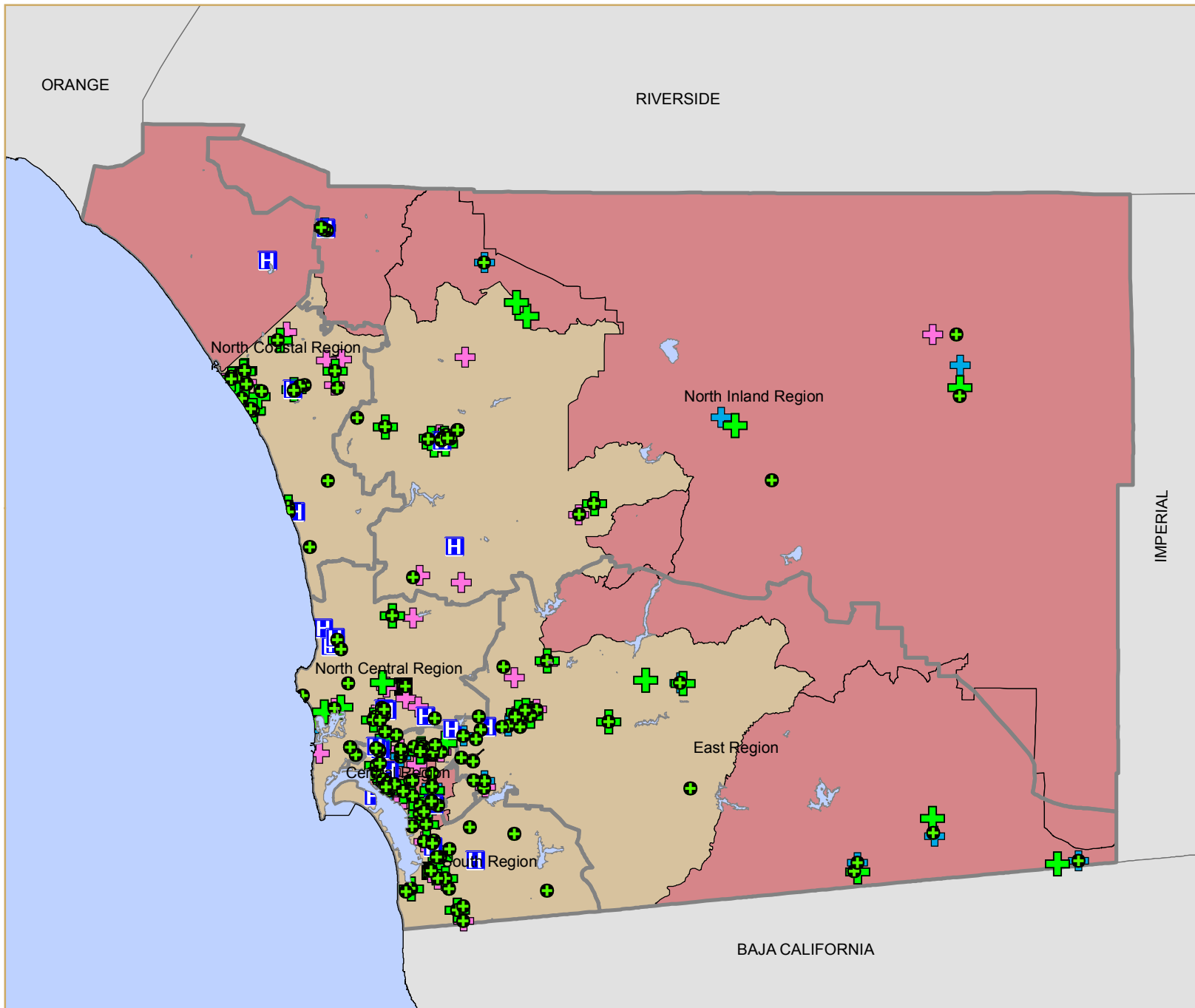
1. A rational service area, [the Federal Shortage Designation Branch recognizes Medical Service Study Areas in California as rational service areas.]
2. Population to primary care physician ratio: 3,500:1 or 3,000:1 plus population features demonstrating "unusually high need".
3. A lack of access to health care in surrounding areas because of excessive distance, over-utilization, or access barriers.

Benefits of designation as a HPSA include:

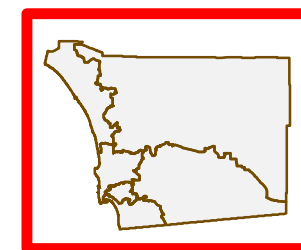
- Student loan repayment and personnel placement through the National Health Service Corps (NHSC);
- Improved Medicare reimbursement. Physicians in geographic HPSAs are automatically eligible for a 10% increase in Medicare reimbursement;
- Eligibility for Rural Health Clinics (a prospective payment method designed to enhance access to primary health care in rural underserved areas);
- Eligibility for the California State Loan Repayment Program;
- Enhanced federal grant eligibility; and
- Funding preference for primary care physician, physician assistant, nurse practitioner, and nurse midwife programs that provide substantial training experience in HPSAs.

* Information from Office of Statewide Health Planning and Development (OSHPD) <http://www.oshpd.ca.gov/>

Primary Care Health Professional Shortage Areas in San Diego County, 2010



- Primary Care HPSA
- Hospital
- Immunization Provider
- Clinic**
- Community Clinic
- Migrant Hlth Ctr
- County Med. Services
- Women, Infant, Child
- Public Health Center
- HPSA Region



Source: Health professional shortage data from the Office of Statewide Health and Planning and Development (OSHPD), last updated 8/24/2010 and accessed 11/30/2010. Maps prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Emergency Medical Services 12/1/2010.
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Map 3: Registered Nurse Shortage Areas (RNSA) in San Diego County, 2010.

Registered Nursing Shortage Areas (RNSA)*

The majority of nurses are employed at hospitals and long term care facilities. RNSAs are those areas (1) lacking any hospital AND long-term care facility and (2) above the mean nurse to population ratio, where the mean is the average of all counties in California

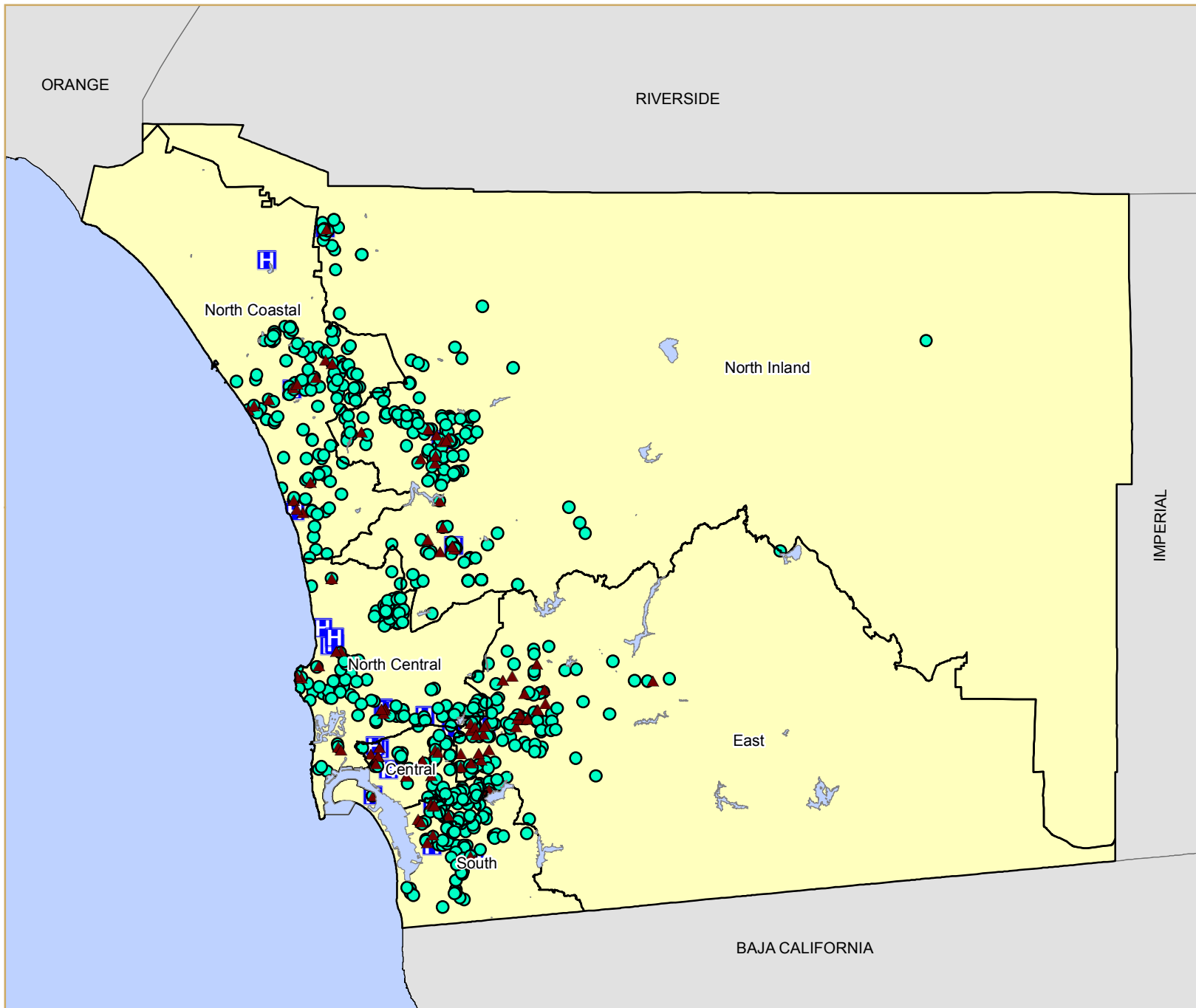
This designation uses three factors in defining nursing shortage.

1. County boundaries (as the geographic unit for analysis),
2. The Board of Registered Nursing (BRN) licensee data and
3. The patient day or census data from all long term care facilities and general acute care hospitals.

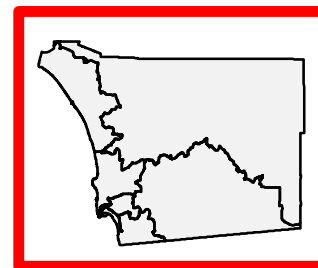
There is a shortage of nurses statewide. This RNSA designates 31,311,830 people (84% of the 37,444,385) based on 2006 provisional Department of Finance population estimates. Twenty-seven counties, including San Diego County, are listed as Registered Nurse Shortage Areas.

* Information from Office of Statewide Health Planning and Development (OSHPD) <http://www.oshpd.ca.gov/>

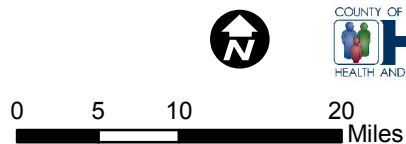
Registered Nurse Shortage Areas in San Diego County, 2010



- RNSA
- H Hospital
- Skilled Nursing Facility
- Long-term care facility
- Region



Source: Health professional shortage data from the Office of Statewide Health and Planning and Development (OSHDP), last updated 8/24/2010 and accessed 11/30/2010. Maps prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Emergency Medical Services 12/1/2010.
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D_North_American_1983, Foot_US

Map 4: Mental Health Professional Shortage Areas (Mental HPSA) in San Diego County, 2010.

Mental Health Professional Shortage Area (Mental HPSA)*

The federal HPSA designation (formerly Health Manpower Shortage Areas) identifies areas as having a shortage of mental health providers on the basis of availability of psychiatrist and mental health professionals. To qualify for designation as a Mental HPSA, an area must be:

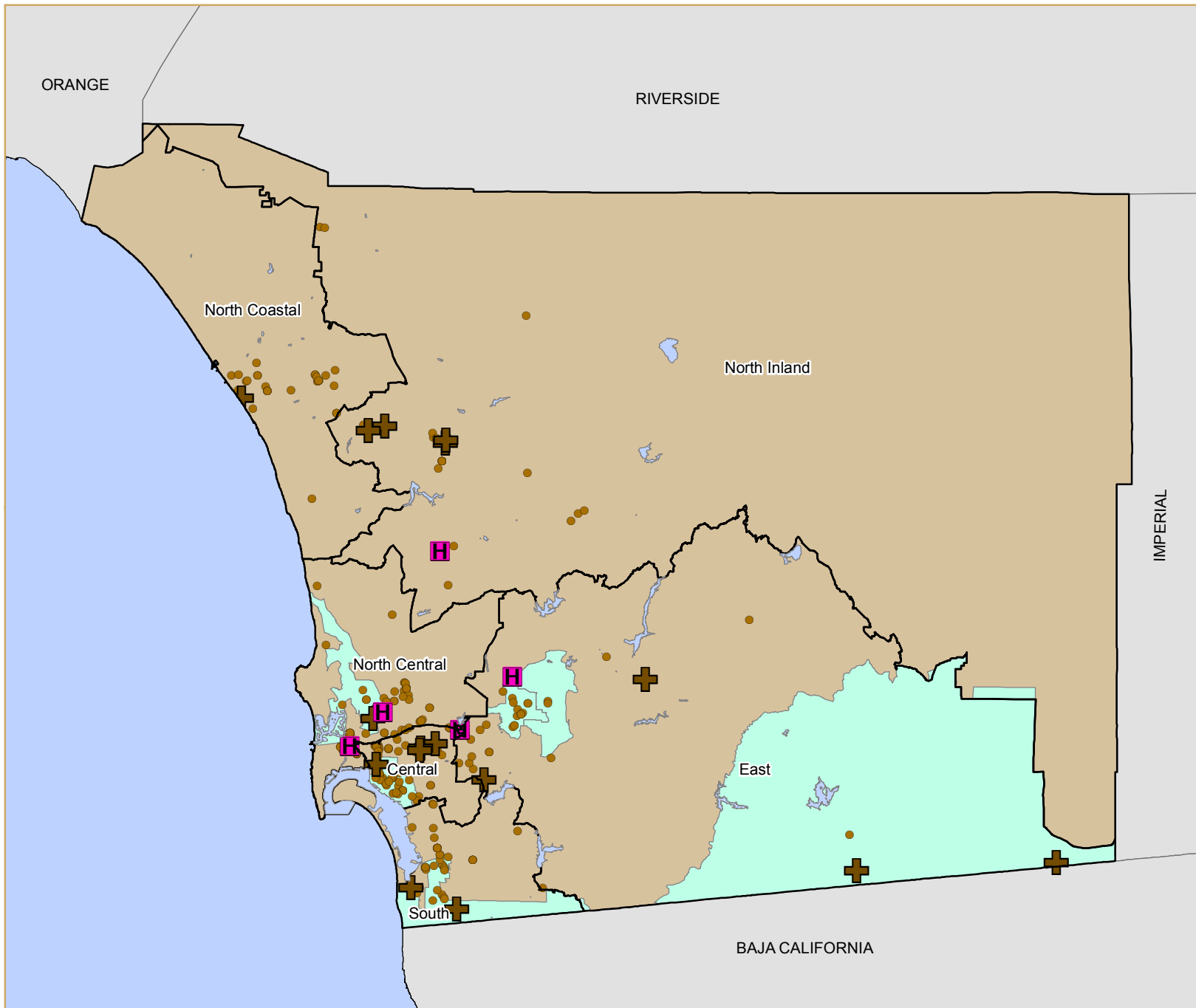
1. A rational service area for the delivery of mental health services,
2. A lack of access to care provided by Core Mental Health Professionals (CMHP) in the area, and
3. One of the following conditions prevails in the area:
 - a) The population to CMHP ratio is > 6,000:1, and the population to psychiatrist ratio is > 20,000:1
 - b) The population to CMHP ratio is > 9,000:1
 - c) The population to psychiatrist ratio is > 30,000:1

Benefits of designation as a Mental Health HPSA include:

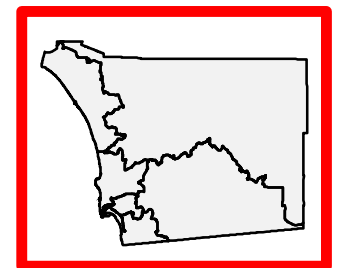
- Student loan repayment and personnel placement through the National Health Service Corps (NHSC)
- Improved Medicare reimbursement
- Enhanced federal grant eligibility.

* Information from Office of Statewide Health Planning and Development (OSHPD) <http://www.oshpd.ca.gov/>

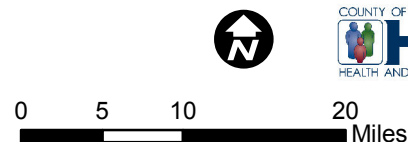
Mental Health Professional Shortage Areas in San Diego County, 2010



- Mental HPSA
- H Acute Psychiatric Hospital
- + Mental Health Clinics
- Behavioral Health Programs
- Region



Source: Health professional shortage data from the Office of Statewide Health and Planning and Development (OSHPD), last updated 8/24/2010 and accessed 11/30/2010. Maps prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Emergency Medical Services 12/1/2010.
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Map 5: Dental Health Professional Shortage Areas (Dental HPSA) in San Diego County, 2010.

Dental Health Professional Shortage Area (Dental HPSA)*

The federal Dental HPSA designation (formerly Health Manpower Shortage Areas) identifies areas as having a shortage of dental providers on the basis of availability of dentists and dental auxiliaries. To qualify for designation as a Dental HPSA, an area must be:

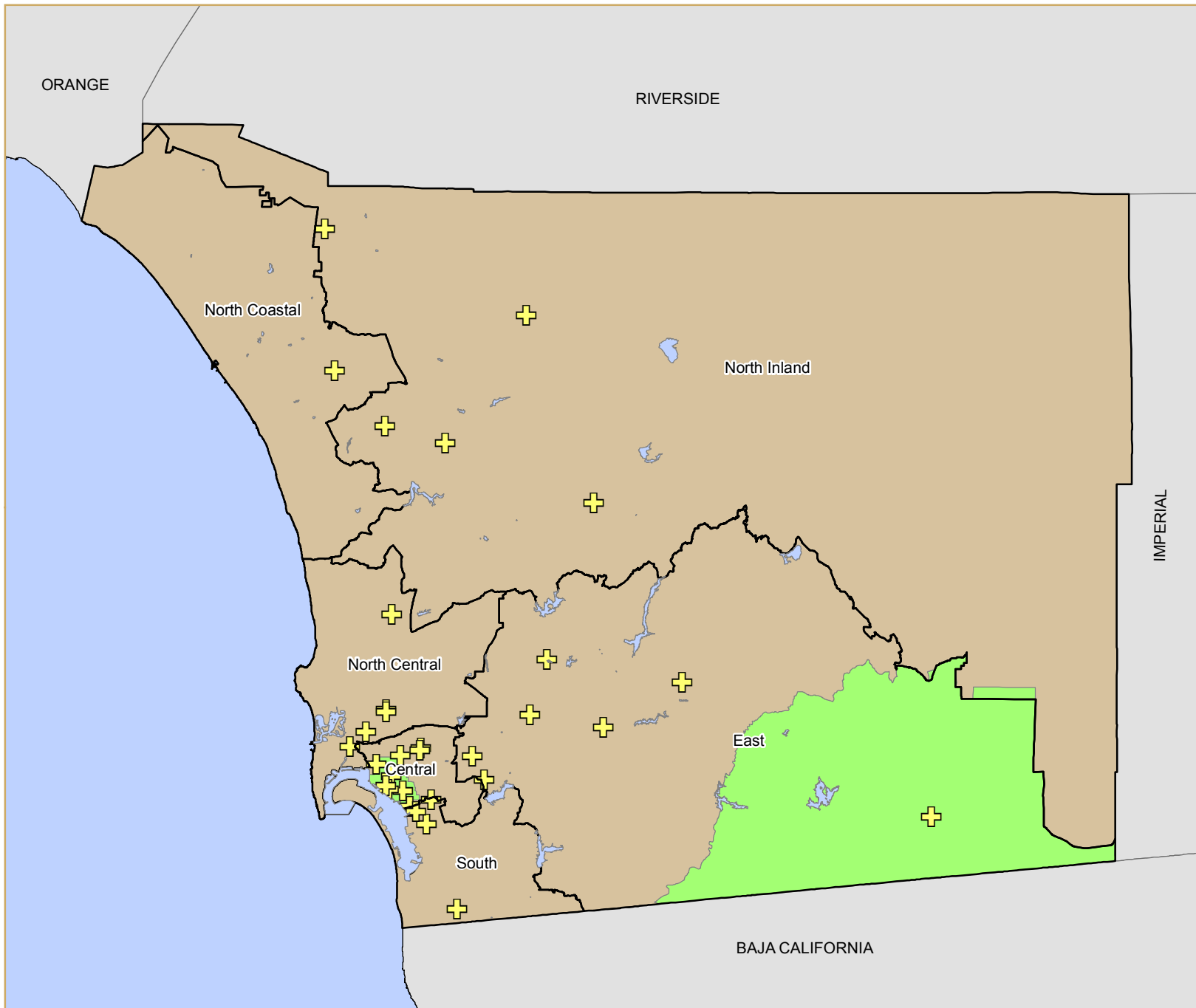
1. A rational service area, [the Federal Shortage Designation Branch recognizes Medical Services Study Areas as rational service areas.]
2. Population to general practice dentist ratio: 5,000:1 or 4,000:1 plus population features demonstrating "unusually high need",
3. A lack of access to dental care in surrounding areas because of distance, overutilization, or access barriers.

Benefits of designation as a Dental HPSA include:

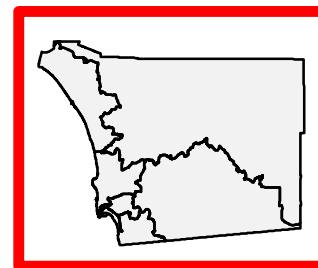
- Student loan repayment and personnel placement through the National Health Service Corps (NHSC);
- Eligibility for the California State Loan Repayment Program;
- Scholarships for dental training in return for service in a shortage area; and
- Funding priorities for training in general practice dentistry in programs that provide substantial training in shortage areas.

* Information from Office of Statewide Health Planning and Development (OSHPD) <http://www.oshpd.ca.gov/>

Dental Health Professional Shortage Areas in San Diego County, 2010



- Dental HPSA
- + Low-income Dental Clinic
- Region



Source: Health professional shortage data from the Office of Statewide Health and Planning and Development (OSHDP), last updated 8/24/2010 and accessed 11/30/2010. Maps prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Emergency Medical Services 12/1/2010.
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D_North_American_1983, Foot_US

Map 6: Medical Service Study Areas (MSSA) in San Diego County, 2010.

Medical Service Study Areas (MSSA)*

Medical Service Study Areas (MSSA) are the defined geographic analysis units for the Office of Statewide Health Planning and Development. MSSA are reproduced on the decadal census and the boundaries are formally approved by the Health Manpower Policy Commission. Moreover, the US Department of Health and Human Services, Health Resources Serviced Administration (HRSA) formally recognizes California MSSA as the Rational Service Areas (RSA) for medical services for California.

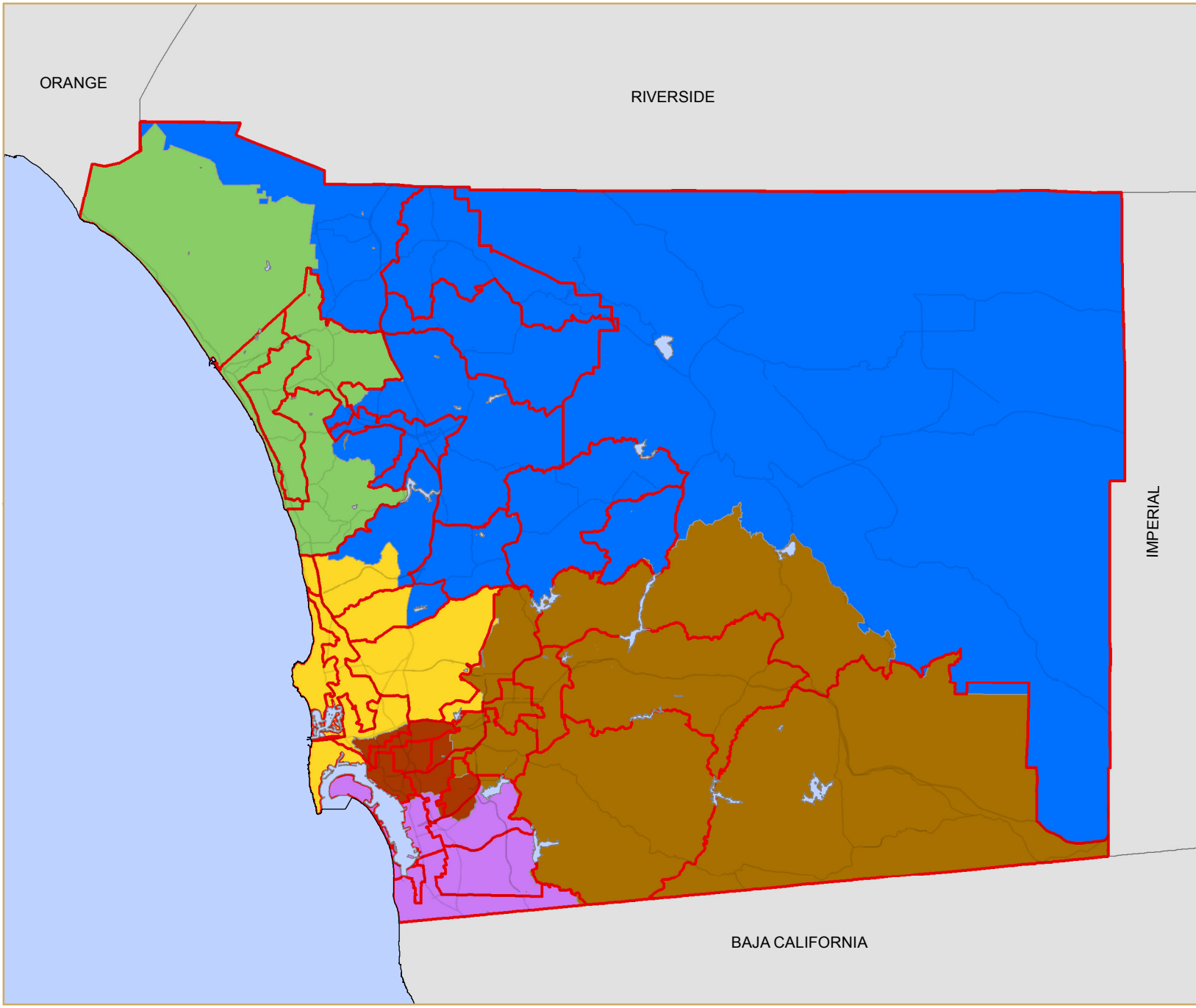
MAJOR USES OF MSSAs

- US Public Health Service recognizes MSSAs as "Rational Service Areas" for purposes of determining HPSAs, MUAs.
- MSSAs are a principal component for display of large data bases through OSHPD's and State of California's Geographic Information Systems.
- MSSAs have the potential for assisting in needs assessment, health planning, and health policy development.

These data were developed by the Office of Statewide Health Planning and Development's (OSHPD) Healthcare Workforce and Community Development Division (HWCDD). The data are used to support the following programmatic areas:

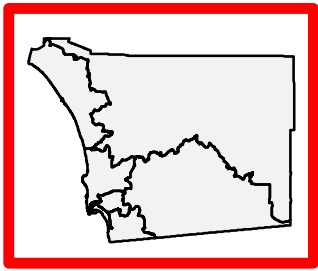
- 1) encourage demographically underrepresented groups to pursue healthcare careers
- 2) identifies geographic areas of unmet need, and
- 3) encourages primary care physicians and non-physician practitioners to provide healthcare in medically underserved areas in California.

* Information from Office of Statewide Health Planning and Development (OSHPD) <http://www.oshpd.ca.gov/>



Medical Service Study Areas (MSSA) in San Diego County, 2010

- MSSA
- Region**
- Central
- East
- North Central
- North Coastal
- North Inland
- South



Source: Health professional shortage data from the Office of Statewide Health and Planning and Development (OSHDP), last updated 8/24/2010 and accessed 11/30/2010. Maps prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Emergency Medical Services 12/1/2010.
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